

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION

22.06D: Special Monitoring for Perchlorate

(1) Applicability: Monitoring under 310 CMR 22.06(D) applies to community water systems and non-transient non-community water systems.

(2) Sampling Protocol: Monitoring shall be as follows:

(a) Groundwater Sampling Points: Groundwater systems shall take one sample at every entry point to the distribution system which is representative of each well after treatment (hereafter called a sampling point) during the month of April 2004 and again during the month of September 2004. The system shall take each sample at the same sampling point unless conditions make another sampling point more representative of each source or treatment plant.

(b) Surface Water Sampling Points: Surface water systems (Note: For the purposes of 310 CMR 22.06D(2)(b), surface water systems include systems with a combination of surface and ground sources.) shall take one sample at every entry point to the distribution system after any application of treatment or in the distribution system at a point which is representative of each source after treatment (hereafter called a sampling point) beginning in March 2004 and continuing in each calendar quarter (April to June, July to September, and October to December) until December 31, 2004. The system shall take each sample at the same sampling point unless conditions make another sampling point more representative of each source or treatment plant.

(c) Multiple Sources: If a system draws water from more than one source and the sources are combined before distribution, the system must sample at an entry point to the distribution system during periods of normal operating conditions (i.e. when water is representative of all sources being used).

(3) Increased Sampling Frequency: The Department may require more frequent monitoring than specified in 310 CMR 22.06D(2) or may require confirmation samples for positive or negative results at its discretion.

(4) Analytical Methods for Perchlorate: Analysis for perchlorate shall be conducted using EPA Method 314.0, revision 1.0, November 1999, "Determination of Perchlorate in Drinking Water Using Ion Chromatography" as modified to achieve the performance requirements in 310 CMR 22.06D(4).

Perchlorate Detection Limits: Analysis for perchlorate must meet a minimum reporting level of 1.0 ug/L (ppb) with a method detection limit below this level.

(5) Use of Certified Laboratories: Analysis for perchlorate shall be conducted by a laboratory approved by EPA for monitoring perchlorate under the Unregulated Contaminant Monitoring Rule (40 CFR 141.35) provided that the laboratory has demonstrated to the Department that it can achieve the more stringent performance requirements of 310 CMR 22.06D(4). The full list of laboratories approved by EPA for UCMR perchlorate monitoring can be found at <http://www.epa.gov/safewater/standard/ucmr/aprvlabs.html#percanchor>. The Department will make available at <http://www.state.ma.us/dep/brp/dws/dwsforms.htm#quality> a list of the laboratories which have demonstrated the more stringent detection limits.

(6) Reporting: Each supplier of water who is required to monitoring under 310 CMR 22.06D shall report to the Department according to the provisions of 310 CMR 22.15.